HTML STRUCTURE





SoftUni Team Technical Trainers







Software University https://softuni.bg

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Have a Question?





#HTIVIL-CSS



What is Semantic HTML?



 HTML that introduces meaning to the web page rather than just presentation

Some random text...

Indicates that the enclosed text is a paragraph

- This is both semantic and presentational
 - People know what paragraphs are and browsers know how to display them



Why You Should Care About Semantics? Software University





- Provides an additional information about that document, which aids in communication
- Semantic tags make it clear to the browser what the meaning of a page and its content is
 - That clarity is also communicated with search engines



<header></header>





- Represents introductory content
- Typically a group of introductory or navigational aids
- It may contain some heading elements but also other elements like:
 - a logo
 - a search form
 - an author name

<nav></nav>





- Its purpose is to provide navigation links, either
 within the current document or to other documents
- Common examples of navigation sections are
 - menus
 - tables of contents
 - indexes



<main></main>





- Represents the dominant content of the 'body' of a document
- The main content area consists of content that is directly related to or expands upon:
 - the central topic of a document
 - the central functionality of an application

<aside></aside>





- Represents a portion of a document whose content is only indirectly related to the document's main content
- Asides are frequently presented as sidebars or call-out boxes

<footer></footer>





- Represents a footer for its nearest sectioning content or sectioning root element
- A footer typically contains information about:
 - the author of the section
 - the copyright data
 - the links to related documents

<article></article>





- Represents a self-contained composition in a document, page, application, or site
- Intended to be independently distributable or reusable
- Examples include:
 - a forum post
 - a magazine
 - newspaper article
 - a blog entry

<section></section>





- Represents a standalone section which doesn't have a more specific semantic element to represent it
- Typically, but not always, sections have a heading

<figure></figure>





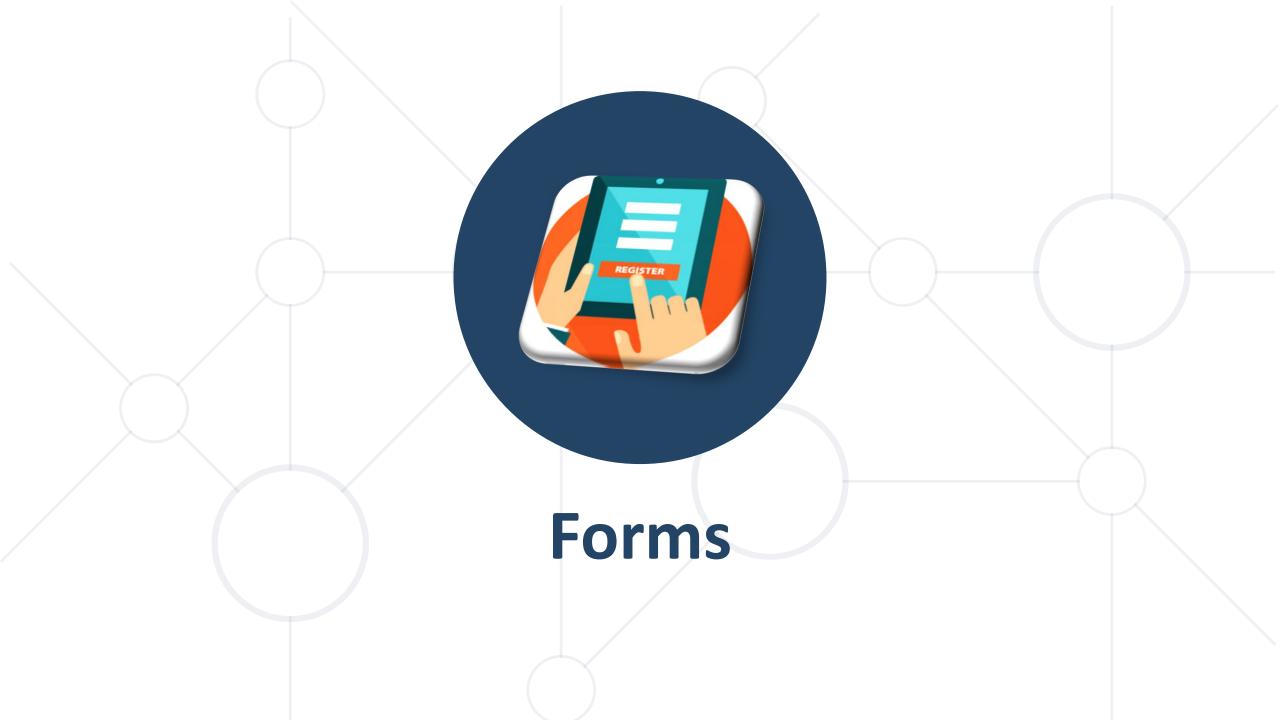
- Represents self-contained content
- Frequently with a caption 'figcaption'
- Typically referenced as a single unit

<mark></mark>





- Represents text which is marked or highlighted for reference or notation purposes
- Due to the marked passage's relevance or importance in the enclosing context



Form





- The HTML form element represents a document section that contains interactive controls for submitting information to a web server
- A form takes input from the site visitor and posts it to the back-end

Form Attributes



- Action used to specify where the form data is to be sent to the server after submission of the form
- Method The HTTP method that the browser uses to submit the form
 - POST Corresponds to the HTTP POST method. Form data are included in the body of the form and sent to the server
 - GET Corresponds to the HTTP GET method. Appends form-data into the URL in name/value pairs

Form Attributes



Form - Example

```
<form action="/action_page.php" method="get">
  <label for="male">Male</label>
  <input type="radio" name="gender" id="male" value="male">
  <label for="female">Female</label>
  <input type="radio" name="gender" id="female" value="female">
  </form>
```

Form Elements - Input



- <input> element is the most important form element. It can be displayed in several ways, depending on the type attribute
 - <input type="text">
 - <input type="number">
 - <input type="password">
 - <input type="email">
 - <input type="search">

Form Elements - Input



- <input type="checkbox">
- <input type="radio">
- <input type="range">
- <input type="submit">
- <input type="button">
- <input type="file">

Form Elements - Input



- Input attributes
 - Value specifies the initial value for an input field
 - Name specifies the name of the input element
 - Placeholder specifies a hint that describes the expected value of the input field
 - Required the field must be filled out before submitting the form
 - Autofocus the input should automatically get focus when the page load
 - Disabled specifies that the input field is disabled
 - Min and Max specify the minimum and maximum values

Form Elements - label



- <label> defines a label for the others forms elements
- The for attribute should be equal to the id attribute of the related element to bind them together

```
<form action="/action_page.php" method="get">
  <label for="male">Male</label>
  <input type="radio" name="gender" id="male" value="male">
  </form>
```

Form Elements - fieldset



- <fieldset> used to group related data in a form
- <legend> defines a caption for the <fieldset> element

```
<form action="/action_page.php">
 <fieldset>
 <legend>Personal information:</legend>
  First name:<br>
 <input type="text" name="firstname" value="Mickey"><br>
  Last name:<br>
  <input type="text" name="lastname" value="Mouse"><br><br>
  <input type="submit" value="Submit">
 </fieldset>
</form>
```

Form Elements - select



- <select> defines a drop-down list
- <option> defines an option that can be selected

```
<select name="cars">
  <option value="volvo">Volvo</option>
  <option value="saab">Saab</option>
  <option value="fiat">Fiat</option>
  <option value="audi">Audi</option>
  </select>
```

Form Elements - textarea



- <textarea> defines a multi-line input field
- Textarea attributes:
 - Rows specifies the visible number of lines in a text area
 - Cols specifies the visible width of a text area

```
<textarea name="message" rows="10" cols="30">
The cat was playing in the garden.
</textarea>
```

Form Elements



<button> - defines a clickable button

```
<button type="button">Click Me!</button>
```

<datalist> - specifies a list of pre-defined options for an <input> element

```
<form action="/action_page.php">
  <input list="browsers">
  <datalist id="browsers">
  <option value="Internet Explorer">
  <option value="Firefox">
  <option value="Chrome">
  </datalist>
  </form>
```



Table Elements



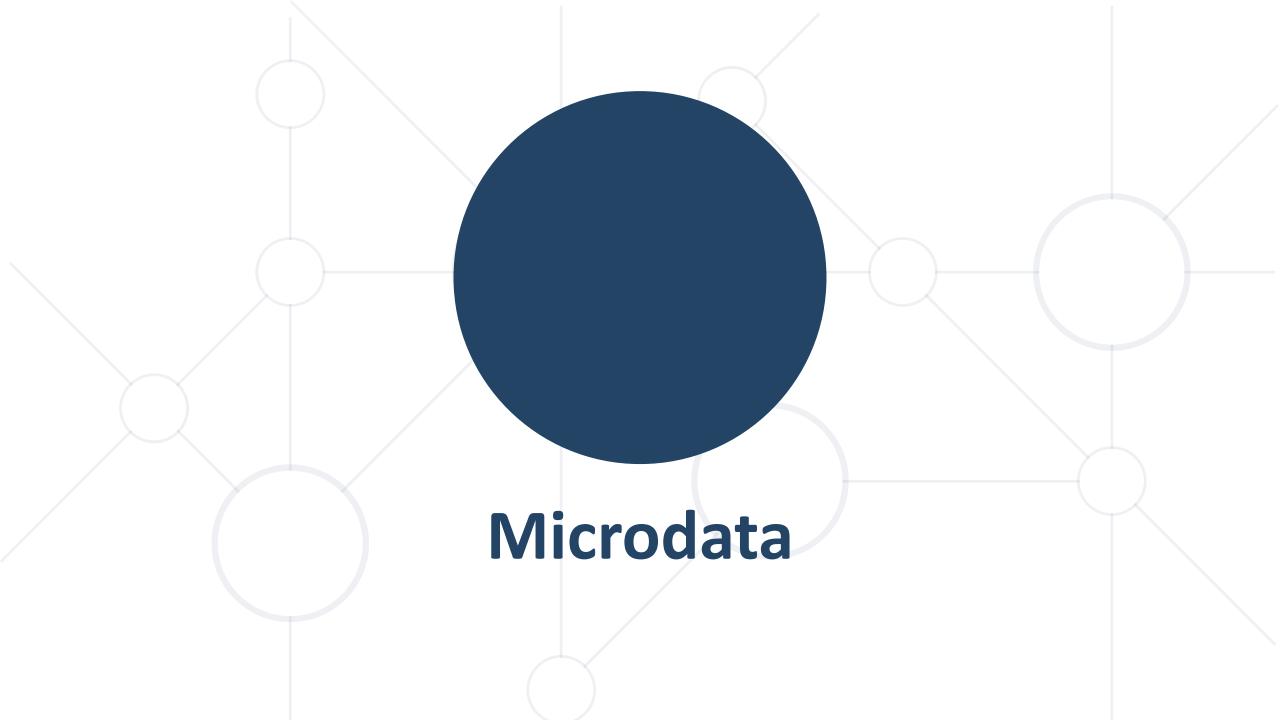
- An HTML table is defined with the tag
- <thead> tag is used to group header content in the table
- tag is used to group the body content
- <tfoot> tag defines a set of rows summarizing the columns of the table
- tag defines a table row
- tag defines a table header
- tag defines a table data/cell

Table Example



```
<thead>
 Items
  Expenditure
 </thead>
Donuts
  3,000
```

```
Stationery
  18,000
 <tfoot>
 Totals
  21,000
 </tfoot>
```



What is Microdata?





- Search engines, web crawlers, and browsers can extract and process Microdata from a web page
- They use it to provide a richer browsing experience for users
- Search engines benefit greatly from direct access to this structured data
- It allows them to understand the information on web pages and provide more relevant results to users

Microdata - Example



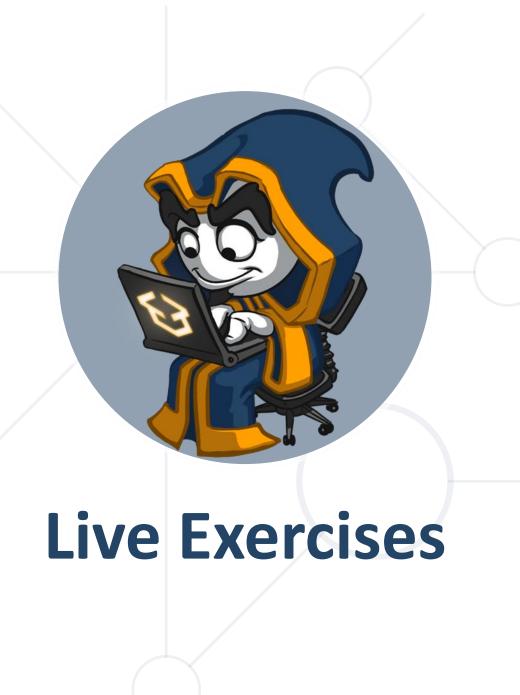


```
<section>
    Hello, my name is John Doe,
    I am a trainer at SoftUni.
    My friends call me Johnny.
    You can visit my homepage at
    <a href="https://doe.me">https://doe.me</a>.
    I live at 123123, Kamelia str, Sofia.
</section>
```

Microdata - Example (2)



```
<section itemscope itemtype="http://schema.org/Person">
 Hello, my name is <span itemprop="name">John Doe</span>
  I am a <span itemprop="jobTitle">trainer</span>.
 My friends call me <span itemprop="additionalName">Koko</span>.
 Visit my homepage at <a href=<u>https://doe.me</u> itemprop="url">https://doe.me</a>.
  <section itemprop="address" itemscope itemtype="http://schema.org/PostalAddres">
      I live at
      <span itemprop="streetAddress">123123</span>,
      <span itemprop="addressLocality">Kamelia str</span>,
      <span itemprop="addressRegion">Sofia</span>.
 </section>
</section>
```



Summary



- Semantic HTML
- Tags
- Forms
- Tables
- Microdata



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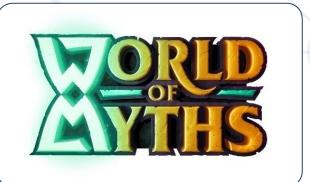
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Questions?

















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